

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 G02B6/36 G02B6/38

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 G02B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)  
EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2003/034438 A1 (HEIKS NOEL A ET AL) 20 February 2003 (2003-02-20) the whole document	1-15
A	US 2003/138219 A1 (EDWARDS PHILLIP J ET AL) 24 July 2003 (2003-07-24) abstract	
X	US 6 048 107 A (PUBANZ GEORGE) 11 April 2000 (2000-04-11) abstract	1-7, 13-15
A	US 2001/055460 A1 (STEINBERG DAN A) 27 December 2001 (2001-12-27) figure 1	11
A	US 2003/091301 A1 (JIN YONG-SUNG ET AL) 15 May 2003 (2003-05-15)	
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

17 December 2004

Date of mailing of the international search report

12/01/2005

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 470 123 B1 (RICH ERNEST J ET AL) 22 October 2002 (2002-10-22) -----	
A	US 5 671 311 A (STILLIE DONALD GRAY ET AL) 23 September 1997 (1997-09-23) -----	
A	EP 1 092 996 A (TYCO ELECTRONICS CORP) 18 April 2001 (2001-04-18) -----	

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